## SEOUENCE LISTING

<110> Stevens, Bruce R. Cuda, James P. Long, Lewis S. <120> Materials and Methods for Controlling Pests <130> UF-283 <160> 27 <170> PatentIn version 3.1 <210> 1 <211> 2860 <212> DNA <213> Manduca sexta, Aedes aegypti, and Leptinotarsa decemlineata <400> 1 ggcacgaggt tacttgttgg aggaactgtt tggcggtggt gcgatcgatt tctgaacaca 60 atacacctaa acacattqca aqtqtqatat tqtqqacaaa atqaatqacq qccaaqtaaa 120 cqqcqqtttc qaqtcqtcqq aqcccaaqat qqaaccaaaa cqatcatcqc aaataaqttt 180 240 acctccagca aataataaag cggctctgga taatatagat gacacggact tagaggctga accgccagaa cgtatggtat ggtccaacaa cattgaattc ttgatgtcct gcatcgctac 300 atccgtcggt ttgggtaacg tgtggcggtt ccctttcatc gcgtaccaga atggaggagg 360 420 tgctttcctg gtgccatacg tcatcgttct tttacttgtc ggcaagcctg tgtactactt agagtgtgtc ctcggacaat tcagttcaag aaactctgtt aaagtttggt caatttcacc 480 ggccatgaaa ggtactggat acgctcaagc tgccggctgc ggttacatcc tgtcttacta 540 cgtggtgatc tgtggtctct gtctgtatta cttagctatg agcttccagg ccactcttcc 600 atgggetatt tgteageetg agtgggagaa etgegtaeee teagateeaa eacttgetge 660 atcagtcaac aacatcacca atggtaccag cagtgctcaa ctctactttt tqagaacagt 720 totocaacaa agogatggaa ttgaaggagg totoggtgoo cocatotggt acttggtgtt 780 gtgtctattc atcgcatggc tcatggtgtt cggagtcgtc gcccgaggag tcaagagttc 840 cggcaaagcg gcctacttcc tcgcgctctt cccatacgtt gtcatgatca ctttattcat 900

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Pro Glu Arg Met Val Trp Ser Asn Asn Ile Glu Phe Leu Met Ser Cys 50 55 60

Ile Ala Thr Ser Val Gly Leu Gly Asn Val Trp Arg Phe Pro Phe Ile 65 70 75 80

Ala Tyr Gln Asn Gly Gly Gly Ala Phe Leu Val Pro Tyr Val Ile Val 85 90 95

Leu Leu Val Gly Lys Pro Val Tyr Tyr Leu Glu Cys Val Leu Gly 100 105 110

Gln Phe Ser Ser Arg Asn Ser Val Lys Val Trp Ser Ile Ser Pro Ala 115 120 125

Met Lys Gly Thr Gly Tyr Ala Gln Ala Ala Gly Cys Gly Tyr Ile Leu 130 135 140

Ser Tyr Tyr Val Val Ile Cys Gly Leu Cys Leu Tyr Tyr Leu Ala Met 145 150 155 160

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Phe Pro Tyr Val Val Met Ile Thr Leu Phe Ile Thr Thr Ile Ile Leu 260 265 270

Pro Gly Ala Thr Asp Gly Ile Leu Phe Phe Val Thr Pro Gln Trp Ala 275 280 285

Lys Leu Glu Leu Gly Val Trp Tyr Ser Ala Val Thr Gln Val Phe 290 295 300

Phe Ser Leu Thr Val Cys Thr Gly Pro Ile Ile Met Phe Ser Ser Tyr 305 310 315 320

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Met Ser Val Leu Gly Ile Gly Ser Ser Val Ala Leu Leu Ser Thr Phe 405 410 415

Asn Thr Leu Ala Met Asp Ala Phe Pro Arg Val Pro Thr Val Tyr Met 420 425 430

Ser Ala Met Thr Cys Ser Cys Gly Phe Leu Leu Gly Leu Val Tyr Cys 435 440 445

Thr Pro Gly Gly Gln Tyr Ile Leu Glu Leu Val Asp His Tyr Gly Gly 450 455 460

Thr Phe Leu Val Leu Phe Cys Ala Ile Ser Glu Leu Ala Gly Val Phe 465 470 475 480

Trp Ile Tyr Gly Leu Glu Asn Leu Cys Leu Asp Ile Glu Phe Met Leu 485 490 495

Gly Lys Lys Thr Gly Ala Tyr Trp Arg Leu Cys Trp Gly Val Ile Thr 500 505 510

Pro Ala Ile Met Thr Thr Val Phe Phe Tyr Ala Leu Leu Ala Ser Asn 515 520 525

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